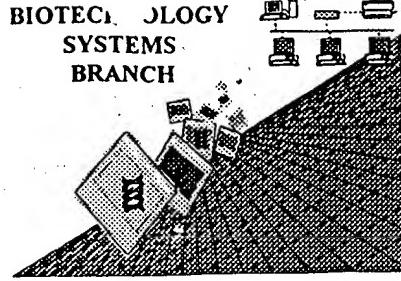


RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/828,307

Source: O/PE

Date Processed by STIC: 4-23-01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

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TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 3.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

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The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

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OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/828,307

DATE: 04/23/2001
TIME: 13:16:47

Input Set : A:\PTO.txt
Output Set: N:\CRF3\04232001\I828307.raw

3 <110> APPLICANT: Mack, David
 4 Gish, Kurt
 5 Wilson, Keith
 7 <120> TITLE OF INVENTION: NOVEL METHODS OF DIAGNOSING CANCER, COMPOSITIONS, AND METHODS OF
 8 SCREENING FOR CANCER MODULATORS
 10 <130> FILE REFERENCE: A-69192-1/DJB/JJD/AMS
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/828,307
 C--> 12 <141> CURRENT FILING DATE: 2001-04-06
 12 <150> PRIOR APPLICATION NUMBER: US 09/608,821
 13 <151> PRIOR FILING DATE: 2000-06-30
 15 <160> NUMBER OF SEQ ID NOS: 5
 17 <170> SOFTWARE: PatentIn version 3.0
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 3794
 21 <212> TYPE: DNA
 22 <213> ORGANISM: Homo sapiens
 24 <220> FEATURE:
 25 <221> NAME/KEY: CDS
 26 <222> LOCATION: (38)..(2635)
 28 <400> SEQUENCE: 1
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 30 Met Ala Leu Val Leu Gly
 31 1 5
 33 tcc ctg ttg ctg ctg ggg ctg tgc ggg aac tcc ttt tca gga ggg cag 103
 34 Ser Leu Leu Leu Gly Leu Cys Gly Asn Ser Phe Ser Gly Gly Gln
 35 10 15 20
 37 cct tca tcc aca gat gct cct aag gct tgg aat tat gaa ttg cct gca 151
 38 Pro Ser Ser Thr Asp Ala Pro Lys Ala Trp Asn Tyr Glu Leu Pro Ala
 39 25 30 35
 41 aca aat tat gag acc caa gac tcc cat aaa gct gga ccc att ggc att 199
 42 Thr Asn Tyr Glu Thr Gln Asp Ser His Lys Ala Gly Pro Ile Gly Ile
 43 40 45 50
 45 ctc ttt gaa cta gtg cat atc ttt ctc tat gtg gta cag ccg cgt gat 247
 46 Leu Phe Glu Leu Val His Ile Phe Leu Tyr Val Val Gln Pro Arg Asp
 47 55 60 65 70
 49 ttc cca gaa gat act ttg aga aaa ttc tta cag aag gca tat gaa tcc 295
 50 Phe Pro Glu Asp Thr Leu Arg Lys Phe Leu Gln Lys Ala Tyr Glu Ser
 51 75 80 85
 53 aaa att gat tat gac aag cca gaa act gta atc tta ggt cta aag att 343
 54 Lys Ile Asp Tyr Asp Lys Pro Glu Thr Val Ile Leu Gly Leu Lys Ile
 55 90 95 100
 57 gtc tac tat gaa gca ggg att att cta tgc tgt gtc ctg ggg ctg ctg 391
 58 Val Tyr Tyr Glu Ala Gly Ile Ile Leu Cys Cys Val Leu Gly Leu Leu
 59 105 110 115
 61 ttt att att ctg atg cct ctg gtg ggg tat ttc ttt tgt atg tgt cgt 439
 62 Phe Ile Ile Leu Met Pro Leu Val Gly Tyr Phe Phe Cys Met Cys Arg
 63 120 125 130

Does Not Comply
Corrected Diskette Needed
See p.6

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/828,307

DATE: 04/23/2001
TIME: 13:16:47

Input Set : A:\PTO.txt
Output Set: N:\CRF3\04232001\I828307.raw

65	tgc	tgt	aac	aaa	tgt	ggt	gga	gaa	atg	cac	cag	cga	cag	aag	gaa	aat	487
66	Cys	Cys	Asn	Lys	Cys	Gly	Gly	Glu	Met	His	Gln	Arg	Gln	Lys	Glu	Asn	
67	135					140			145						150		
69	ggg	ccc	tcc	ctg	agg	aaa	tgc	ttt	gca	atc	tcc	ctg	ttg	gtg	att	tgt	535
70	Gly	Pro	Phe	Leu	Arg	Lys	Cys	Phe	Ala	Ile	Ser	Leu	Leu	Val	Ile	Cys	
71						155			160						165		
73	ata	ata	ata	agc	att	ggc	atc	tcc	tat	ggt	ttt	gtg	gca	aat	cac	cag	583
74	Ile	Ile	Ile	Ser	Ile	Gly	Ile	Phe	Tyr	Gly	Phe	Val	Ala	Asn	His	Gln	
75						170			175						180		
77	gta	aga	acc	cgg	atc	aaa	agg	agt	cgg	aaa	ctg	gca	gat	agc	aat	tcc	631
78	Val	Arg	Thr	Arg	Ile	Lys	Arg	Ser	Arg	Lys	Leu	Ala	Asp	Ser	Asn	Phe	
79						185			190						195		
81	aag	gac	ttg	cga	act	ctc	ttg	aat	gaa	act	cca	gag	caa	atc	aaa	tat	679
82	Lys	Asp	Leu	Arg	Thr	Leu	Leu	Asn	Glu	Thr	Pro	Glu	Gln	Ile	Lys	Tyr	
83						200			205						210		
85	ata	ttg	gcc	cag	tac	aac	act	acc	aag	gac	aag	gcg	ttc	aca	gat	ctg	727
86	Ile	Leu	Ala	Gln	Tyr	Asn	Thr	Thr	Lys	Asp	Lys	Ala	Phe	Thr	Asp	Leu	
87						215			220						225		230
89	aac	agt	atc	aat	tca	gtg	cta	gga	ggc	gga	att	ctt	gac	cga	ctg	aga	775
90	Asn	Ser	Ile	Asn	Ser	Val	Leu	Gly	Gly	Gly	Ile	Leu	Asp	Arg	Leu	Arg	
91						235			240						245		
93	ccc	aac	atc	atc	cct	gtt	ctt	gat	gag	att	aag	tcc	atg	gca	aca	gcg	823
94	Pro	Asn	Ile	Ile	Pro	Val	Leu	Asp	Glu	Ile	Lys	Ser	Met	Ala	Thr	Ala	
95						250			255						260		
97	atc	aag	gag	acc	aaa	gag	gcg	ttg	gag	aac	atg	aac	agc	acc	ttg	aag	
98	Ile	Lys	Glu	Thr	Lys	Glu	Ala	Leu	Glu	Asn	Met	Asn	Ser	Thr	Leu	Lys	
99						265			270						275		
101	agc	ttg	cac	caa	caa	agt	aca	cag	ctt	agc	agc	agt	ctg	acc	agc	gtg	919
102	Ser	Leu	His	Gln	Gln	Ser	Thr	Gln	Leu	Ser	Ser	Ser	Leu	Thr	Ser	Val	
103						280			285						290		
105	aaa	act	agc	ctg	cgg	tca	tct	ctc	aat	gac	cct	ctg	ttg	gtg	cat	967	
106	Lys	Thr	Ser	Leu	Arg	Ser	Ser	Leu	Asn	Asp	Pro	Leu	Cys	Leu	Val	His	
107						295			300						305		310
109	cca	tca	agt	gaa	acc	tgc	aac	agc	atc	aga	ttg	tct	cta	agc	cag	ctg	1015
110	Pro	Ser	Ser	Glu	Thr	Cys	Asn	Ser	Ile	Arg	Leu	Ser	Leu	Ser	Gln	Leu	
111						315			320						325		
113	aat	agc	aac	cct	gaa	ctg	agg	cag	ctt	cca	ccc	gtg	gat	gca	gaa	ctt	1063
114	Asn	Ser	Asn	Pro	Glu	Leu	Arg	Gln	Leu	Pro	Pro	Val	Asp	Ala	Glu	Leu	
115						330			335						340		
117	gac	aac	gtt	aat	aac	gtt	ctt	agg	aca	gat	ttg	gat	ggc	ctg	gtc	caa	1111
118	Asp	Asn	Val	Asn	Asn	Val	Leu	Arg	Thr	Asp	Leu	Asp	Gly	Leu	Val	Gln	
119						345			350						355		
121	cag	ggc	tat	caa	tcc	ctt	aat	gat	ata	cct	gac	aga	gta	caa	cgc	caa	1159
122	Gln	Gly	Tyr	Gln	Ser	Leu	Asn	Asp	Ile	Pro	Asp	Arg	Val	Gln	Arg	Gln	
123						360			365						370		
125	acc	acg	act	gtc	gta	gca	ggt	atc	aaa	agg	gtc	ttg	aat	tcc	att	ggt	1207
126	Thr	Thr	Val	Val	Ala	Gly	Ile	Lys	Arg	Val	Leu	Asn	Ser	Ile	Gly		
127						375			380						385		390
129	tca	gat	atc	gac	aat	gta	act	cag	cgt	ctt	cct	att	cag	gat	ata	ctc	1255

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/828,307

DATE: 04/23/2001

TIME: 13:16:47

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Output Set: N:\CRF3\04232001\I828307.raw

130 Ser Asp Ile Asp Asn Val Thr Gln Arg Leu Pro Ile Gln Asp Ile Leu		
131 395 400 405		
133 tca gca ttc tct gtt tat gtt aat aac act gaa agt tac atc cac aga		1303
134 Ser Ala Phe Ser Val Tyr Val Asn Asn Thr Glu Ser Tyr Ile His Arg		
135 410 415 420		
137 aat tta cct aca ttg gaa gag tat gat tca tac tgg tgg ctg ggt ggc		1351
138 Asn Leu Pro Thr Leu Glu Glu Tyr Asp Ser Tyr Trp Trp Leu Gly Gly		
139 425 430 435		
141 ctg gtc atc tgc tct ctg ctg acc ctc atc gtg att ttt tac tac ctg		1399
142 Leu Val Ile Cys Ser Leu Leu Thr Leu Ile Val Ile Phe Tyr Tyr Leu		
143 440 445 450		
145 ggc tta ctg tgt ggc gtg tgc ggc tat gac agg cat gcc acc ccc acc		1447
146 Gly Leu Leu Cys Gly Val Cys Gly Tyr Asp Arg His Ala Thr Pro Thr		
147 455 460 465 470		
149 acc cga ggc tgt gtc tcc aac acc gga ggc gtc ttc ctc atg gtt gga		1495
150 Thr Arg Gly Cys Val Ser Asn Thr Gly Gly Val Phe Leu Met Val Gly		
151 475 480 485		
153 gtt gga tta agt ttc ctc ttt tgc tgg ata ttg atg atc att gtg gtt		1543
154 Val Gly Leu Ser Phe Leu Phe Cys Trp Ile Leu Met Ile Ile Val Val		
155 490 495 500		
157 ctt acc ttt gtc ttt ggt gca aat gtg gaa aaa ctg atc tgt gaa cct		1591
158 Leu Thr Phe Val Phe Gly Ala Asn Val Glu Lys Leu Ile Cys Glu Pro		
159 505 510 515		
161 tac acg agc aag gaa tta ttc cgg gtt ttg gat aca ccc tac tta cta		1639
162 Tyr Thr Ser Lys Glu Leu Phe Arg Val Leu Asp Thr Pro Tyr Leu Leu		
163 520 525 530		
165 aat gaa gac tgg gaa tac tat ctc tct ggg aag cta ttt aat aaa tca		1687
166 Asn Glu Asp Trp Glu Tyr Tyr Leu Ser Gly Lys Leu Phe Asn Lys Ser		
167 535 540 545 550		
169 aaa atg aag ctc act ttt gaa caa gtt tac agt gac tgc aaa aaa aat		1735
170 Lys Met Lys Leu Thr Phe Glu Gln Val Tyr Ser Asp Cys Lys Lys Asn		
171 555 560 565		
173 aga ggc act tac ggc act ctt cac ctg cag aac agc ttc aat atc agt		1783
174 Arg Gly Thr Tyr Gly Thr Leu His Leu Gln Asn Ser Phe Asn Ile Ser		
175 570 575 580		
177 gaa cat ctc aac att aat gag cat act gga agc ata agc agt gaa ttg		1831
178 Glu His Leu Asn Ile Asn Glu His Thr Gly Ser Ile Ser Ser Glu Leu		
179 585 590 595		
181 gaa agt ctg aag gta aat ctt aat atc ttt ctg ttg ggt gca gca gga		1879
182 Glu Ser Leu Lys Val Asn Leu Asn Ile Phe Leu Leu Gly Ala Ala Gly		
183 600 605 610		
185 aga aaa aac ctt cag gat ttt gct gct tgt gga ata gac aga atg aat		1927
186 Arg Lys Asn Leu Gln Asp Phe Ala Ala Cys Gly Ile Asp Arg Met Asn		
187 615 620 625 630		
189 tat gac agc tac ttg gct cag act ggt aaa tcc ccc gca gga gtg aat		1975
190 Tyr Asp Ser Tyr Leu Ala Gln Thr Gly Lys Ser Pro Ala Gly Val Asn		
191 635 640 645		
193 ctt tta tca ttt gca tat gat cta gaa gca aaa gca aac agt ttg ccc		2023
194 Leu Leu Ser Phe Ala Tyr Asp Leu Glu Ala Lys Ala Asn Ser Leu Pro		

RAW SEQUENCE LISTING

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TIME: 13:16:47

Input Set : A:\PTO.txt

Output Set: N:\CRF3\04232001\I828307.raw

195	650	655	660	
197	cca gga aat ttg agg aac tcc ctg aaa aga gat gca caa act att aaa			2071
198	Pro Gly Asn Leu Arg Asn Ser Leu Lys Arg Asp Ala Gln Thr Ile Lys			
199	665	670	675	
201	aca att cac cag caa cga gtc ctt cct ata gaa caa tca ctg agc act			2119
202	Thr Ile His Gln Gln Arg Val Leu Pro Ile Glu Gln Ser Leu Ser Thr			
203	680	685	690	
205	cta tac caa agc gtc aag ata ctt caa cgc aca ggg aat gga ttg ttg			2167
206	Leu Tyr Gln Ser Val Lys Ile Leu Gln Arg Thr Gly Asn Gly Leu Leu			
207	695	700	705	710
209	gag aga gta act agg att cta gct tct ctg gat ttt gct cag aac ttc			2215
210	Glu Arg Val Thr Arg Ile Leu Ala Ser Leu Asp Phe Ala Gln Asn Phe			
211	715	720	725	
213	atc aca aac aat act tcc tct gtt att att gag gaa act aag aag tat			2263
214	Ile Thr Asn Thr Ser Ser Val Ile Ile Glu Glu Thr Lys Lys Tyr			
215	730	735	740	
217	ggg aga aca ata ata gga tat ttt gaa cat tat ctg cag tgg atc gag			2311
218	Gly Arg Thr Ile Ile Gly Tyr Phe Glu His Tyr Leu Gln Trp Ile Glu			
219	745	750	755	
221	ttc tct atc agt gag aaa gtg gca tcg tgc aaa cct gtg gcc acc gct			2359
222	Phe Ser Ile Ser Glu Lys Val Ala Ser Cys Lys Pro Val Ala Thr Ala			
223	760	765	770	
225	cta gat act gct gtt gat gtc ttt ctg tgt agc tac att atc gac ccc			2407
226	Leu Asp Thr Ala Val Asp Val Phe Leu Cys Ser Tyr Ile Ile Asp Pro			
227	775	780	785	790
229	ttg aat ttg ttt tgg ttt ggc ata gga aaa gct act gta ttt tta ctt			2455
230	Leu Asn Leu Phe Trp Phe Gly Ile Gly Lys Ala Thr Val Phe Leu Leu			
231	795	800	805	
233	ccg gct cta att ttt gcg gta aaa ctg gct aag tac tat cgt cga atg			2503
234	Pro Ala Leu Ile Phe Ala Val Lys Leu Ala Lys Tyr Tyr Arg Arg Met			
235	810	815	820	
237	gat tcg gag gac gtg tac gat gat gtt gaa act ata ccc atg aaa aat			2551
238	Asp Ser Glu Asp Val Tyr Asp Asp Val Glu Thr Ile Pro Met Lys Asn			
239	825	830	835	
241	atg gaa aat ggt aat aat ggt tat cat aaa gat cat gta tat ggt att			2599
242	Met Glu Asn Gly Asn Gly Tyr His Lys Asp His Val Tyr Gly Ile			
243	840	845	850	
245	cac aat cct gtt atg aca agc cca tca caa cat tga tagctgatgt			2645
246	His Asn Pro Val Met Thr Ser Pro Ser Gln His			
247	855	860	865	
249	tgaaactgct tgagcatcag gatactcaa gtggaaagga tcacagattt ttggtagttt			2705
251	ctgggtctac aaggacttc caaatccagg agcaacgcga gtggcaacgt agtgactcag			2765
253	gcgggcacca aggcaacgc accatggtc tctgggtagt gcttaagaa tgaacacaat			2825
255	cacgttatag tccatggtcc atcaacttac aaggatgact ccctcccttc ctgtctattt			2885
257	ttgtttttta cttttttaca ctgagttct atttagacac tacaacatat ggggttttgc			2945
259	ttcccatgg atgcatttct atcaaaactc tatcaaattgt gatggctaga ttctaacata			3005
261	ttgccatgtg tggagtgtgc tgaacacaca coagttaca ggaaagatgc attttgtgt			3065
263	cagtaaacgg tgtatataacc ttttttttacc acagagttt taaaacaaat gaggattata			3125
265	ggactttctt ctaaatgagc taaataagtc accattgact tcttggtgct gttaaaata			3185

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/828,307

DATE: 04/23/2001

TIME: 13:16:47

Input Set : A:\PTO.txt

Output Set: N:\CRF3\04232001\I828307.raw

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269	ctattatact	ttatcaaaga	ttggccatgt	tccacttggaa	aatggcatgc	3305
271	atagagaaac	ctcgtaact	ccatctgaca	aattcaaaag	agagagagag	3365
273	agaaatgctg	ttcgttcaaa	agtggagttg	tttaacaga	tgccaattac	3425
275	ttaacagagt	tttctgttgc	attaggataa	acattaattt	gagtgcagct	3485
277	tcatcagact	agtatcaagt	gttctaaaat	aaaatatgag	aagatcctgt	3545
279	agatctggtg	tccagcatgg	atgaaacctt	tgagtttgg	ccctaattt	3605
281	acaaggtaaa	tattcatttgc	cttcaggagt	ttcatgttgg	atctgtcatt	3665
283	atcagcaatg	aagaacttgt	cggacaaaat	ttaacgttga	tgtaatggaa	3725
285	aggcattccc	cccaggtctt	ttcatgtgca	gattgcagtt	ctgattcatt	3785
287	ggaacttgg					3794
290	<210>	SEQ ID NO:	2			
291	<211>	LENGTH:	865			
292	<212>	TYPE:	PRT			
293	<213>	ORGANISM:	Homo sapiens			
295	<400>	SEQUENCE:	2			
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298	1	5	10	15		
301	Ser Phe Ser	Gly Gly Gln	Pro Ser Ser	Thr Asp Ala Pro	Lys Ala Trp	
302		20	25	30		
305	Asn Tyr Glu	Leu Pro Ala Thr	Asn Tyr Glu	Thr Gln Asp	Ser His Lys	
306		35	40	45		
309	Ala Gly Pro Ile	Gly Ile Leu Phe	Glu Leu Val	His Ile Phe	Leu Tyr	
310		50	55	60		
313	Val Val Gln Pro	Arg Asp Phe Pro	Glu Asp Thr	Leu Arg Lys	Phe Leu	
314		65	70	75	80	
317	Gln Lys Ala	Tyr Glu Ser	Lys Ile Asp	Tyr Asp Lys	Pro Glu Thr Val	
318		85	90	95		
321	Ile Leu Gly	Leu Lys Ile Val	Tyr Tyr Glu	Ala Gly Ile	Ile Leu Cys	
322		100	105	110		
325	Cys Val Leu	Gly Leu Leu Phe	Ile Ile Leu Met	Pro Leu Val	Gly Tyr	
326		115	120	125		
329	Phe Phe Cys Met	Cys Arg Cys	Cys Asn Lys	Cys Gly Gly	Glu Met His	
330		130	135	140		
333	Gln Arg Gln Lys	Glu Asn Gly	Pro Phe Leu Arg	Lys Cys Phe	Ala Ile	
334		145	150	155	160	
337	Ser Leu Leu Val	Ile Cys Ile Ile Ser	Ile Gly Ile Phe	Tyr Gly		
338		165	170	175		
341	Phe Val Ala Asn	His Gln Val Arg	Thr Arg Ile Lys	Arg Ser Arg	Lys	
342		180	185	190		
345	Leu Ala Asp Ser	Asn Phe Lys	Asp Leu Arg	Thr Leu Leu	Asn Glu Thr	
346		195	200	205		
349	Pro Glu Gln Ile	Lys Tyr Ile Leu Ala	Gln Tyr Asn Thr	Thr Lys Asp		
350		210	215	220		
353	Lys Ala Phe Thr	Asp Leu Asn Ser	Ile Asn Ser Val	Leu Gly Gly	Gly	
354		225	230	235	240	
357	Ile Leu Asp Arg	Leu Arg Pro Asn	Ile Ile Pro Val	Leu Asp Glu	Ile	
358		245	250	255		
361	Lys Ser Met Ala	Thr Ala Ile Lys	Glu Thr Lys	Glu Ala Leu	Glu Asn	

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p6

<210> 5 Seg #5

<211> 5

<212> PRT

<213> Artificial →

Incomplete response for <213> as
per new sequence rules section 1.823(6)
See #11 on the Error Summary Sheet.

<220>
<223> Extracellular cytokine receptor motif found in many species.

<220>

<221> UNSURE

<222> (3)..(3)

<223> "Xaa" at position 3 can be any amino acid.

<400> 5

Trp Ser Xaa Trp Ser

1 5

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/828,307

DATE: 04/23/2001
TIME: 13:16:48

Input Set : A:\PTO.txt
Output Set: N:\CRF3\04232001\I828307.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:1012 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5
L:1025 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5